

KARTA KATALOGOWA

R3G146-AD19-18

Wentylator promieniowy EC, łopatki zakrzywione do przodu, jednostronnie ssący

Producent: ebm-papst

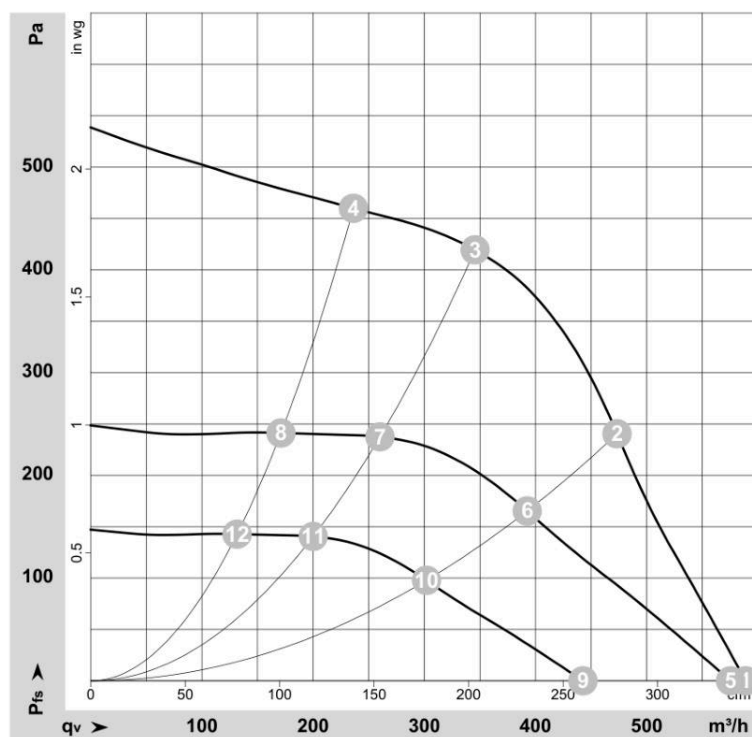


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V (200...240 V)	Wielkość	146 mm
Częstotliwość	50/60 Hz	Silnik	M3G055-CF
Prędkość obrotowa	2425 obr/min	Materiał wirnika	blacha stalowa ocynkowana
Pobór mocy	118 W	Kierunek obrotów	w prawo, patrząc na wirnik
Pobór prądu	1 A	Stopień ochrony	IP54
Maks. wydajność	590 m³/h	Klasa izolacji	B
Maks. ciśnienie statyczne	535 Pa	Zabezpieczenie silnika	ochrona przed zablokowaniem wirnika
Temperatura otoczenia	-25...+50 °C	Łożyskowanie	kulkowe
Regulacja obrotów	0-10 V / PWM	Masa	1,3 kg

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-155518-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

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EC centrifugal fan

forward curved, single inlet

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Nominal data

Type	R3G146-AD19-18	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min ⁻¹	2425
Power input	W	118
Current draw	A	1
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



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Technical features

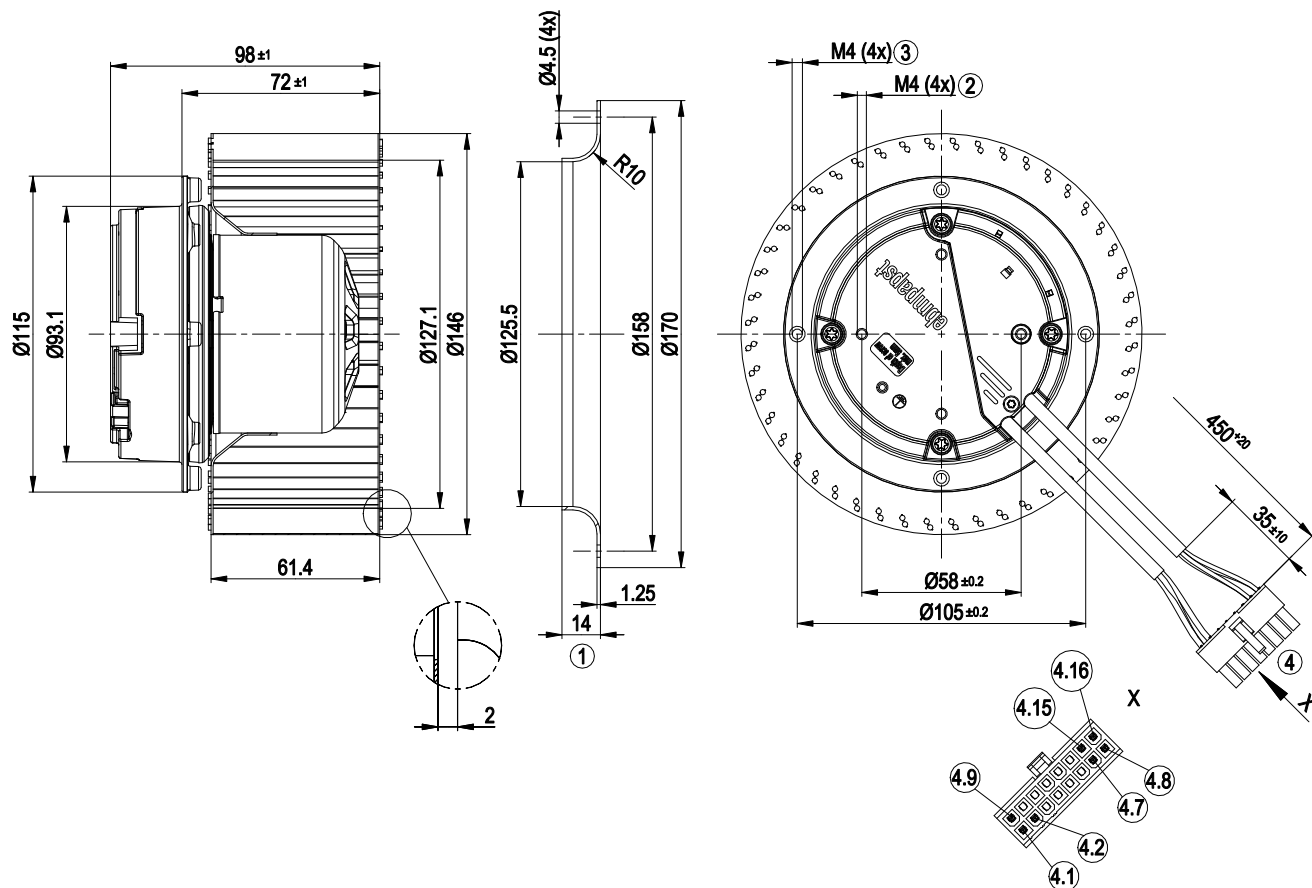
Mass	1.3 kg
Size	146 mm
Surface of rotor	Thick layer passivated
Material of impeller	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Tach output - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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Product drawing



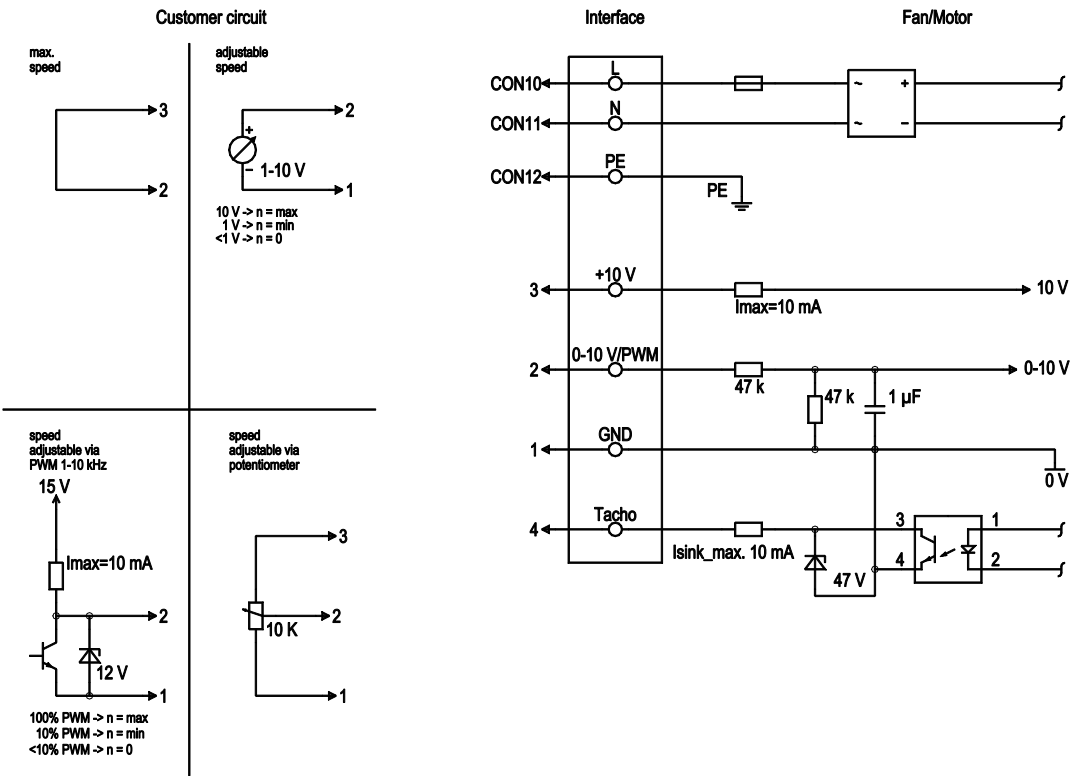
1	Accessory part: Inlet nozzle 09576-2-4013 not included in scope of delivery
2	Thread reach max. 6 mm
3	Thread reach max. 6 mm
4	Connection line PVC 3G 0.5 mm ² , connection line PVC 4x0.25 mm ² , 1x connector housing 16-pole Molex 39-01-2165, 7x female connector Molex 39-00-0059
4.1	N (blue)
4.2	L (brown)
4.7	+10 V (red)
4.8	Tach (white)
4.9	PE (green/yellow)
4.15	GND (blue)
4.16	0-10 V PWM (yellow)

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Connection screen



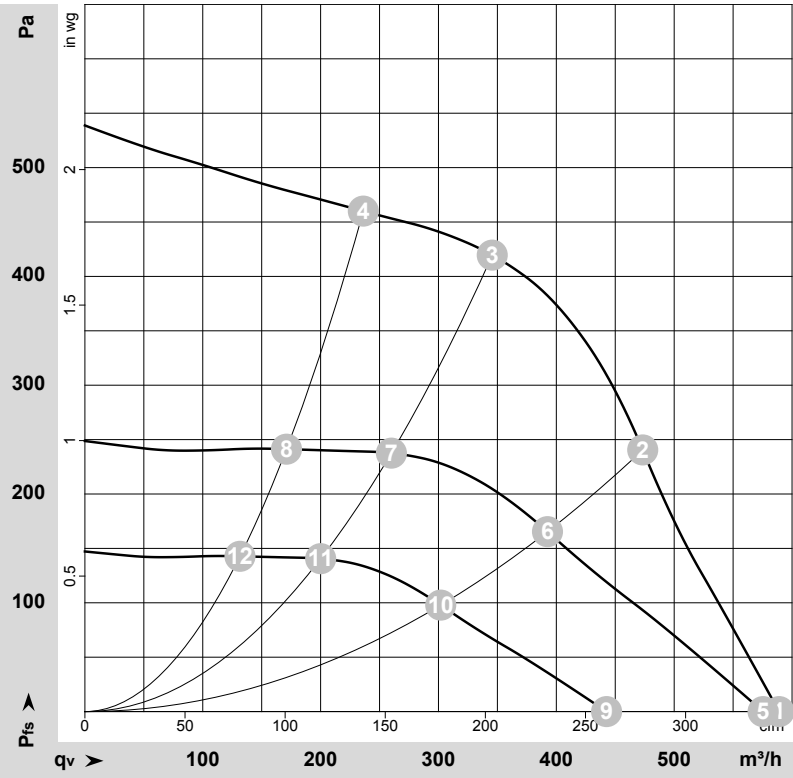
No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	brown	Mains connection, power supply, phase, see type plate for voltage range
	CON11	N	blue	Mains connection, power supply, neutral conductor, see type plate for voltage range
	CON12	PE	green/yellow	Earth connection
	2	0- 10V PWM	yellow	0-10 V/PWM control input, R _i =100 kΩ, SELV
	4	Tach	white	Speed monitoring output, open collector, 1 pulse per revolution, I _{sink max} = 10 mA, SELV
	3	+10 V	red	Fixed voltage output 10 VDC +/-3 %, I _{max} . 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer), SELV
	1	GND	blue	Signal ground for control interface, SELV



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Measured values

	U	f	n	P _{ed}	I	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	230	50	2000	118	1.00	590	0	345	0.00
2	230	50	2425	118	1.00	475	240	280	0.96
3	230	50	2590	99	0.93	345	420	205	1.69
4	230	50	2695	80	0.77	235	460	140	1.85
5	230	50	1950	110	1.01	575	0	340	0.00
6	230	50	1950	68	0.63	395	165	230	0.66
7	230	50	1950	42	0.40	260	238	155	0.96
8	230	50	1950	30	0.29	170	241	100	0.97
9	230	50	1500	50	0.46	445	0	260	0.00
10	230	50	1500	31	0.29	300	98	180	0.39
11	230	50	1500	19	0.18	200	141	120	0.57
12	230	50	1500	14	0.13	130	143	80	0.57

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

